



محمد عارفی

متولد 1363

محل تولد: کاشان وضعیت تاهل: متاهل

آدرس: کاشان - دانشگاه کاشان - دانشکده مهندسی مکانیک

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دانشیار دانشکده مهندسی مکانیک از 91/7

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سوابق تحصیلی

دیپلم ریاضی فیزیک - سال 81 دبیرستان امام خمینی کاشان، معدل دیپلم: 18/40

کارشناسی:

مهندسی مکانیک گرایش طراحی کاربردی دانشگاه کاشان، مهر 81 تا تیر 85، معدل: 17/21
عنوان پایان نامه: تحلیل تنش در مخازن مکعبی تحت بارهای مماسی و پیچشی و خمشی با راهنمایی جناب آقای دکتر سعید گلابی، دانشیار گروه مهندسی مکانیک دانشگاه کاشان.

کارشناسی ارشد:

طراحی کاربردی از مهر 85 تا شهریور 87، معدل کل: 17/46
عنوان پایان نامه: آنالیز الاستیک پلاستیک پنل با گشودگی با راهنمایی دکتر غلامحسین رحیمی استاد تمام گروه مهندسی مکانیک دانشگاه تربیت مدرس

دکتری تخصصی:

طراحی کاربردی از مهر 87 تا شهریور 91، معدل: 18/73
عنوان رساله: تحلیل استاتیکی سیلندر جدار ضخیم متقارن محوری ساخته شده از مواد پیزوالکتریک تابعی تحت فشار داخلی با راهنمایی دکتر غلامحسین رحیمی استاد تمام گروه مهندسی مکانیک دانشگاه تربیت مدرس

سوابق پژوهشی

الف-مقالات چاپ شده در مجلات معتبر داخلی شامل 4 مقاله

قبل از دکتری

1. عارفی، رحیمی و اکبری آلاشتی، آنالیز بار حد پنل با گشودگی دایروی، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره 18 پاییز 1388.
2. عارفی و رحیمی، آنالیز ترموالاستیک سیلندر جدار ضخیم FG تحت فشار با استفاده از تئوری برشی مرتبه اول، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره 20 پاییز 1389.
3. عارفی، رحیمی و خوشگفتار، فرمولبندی عمومی برای آنالیز ترموپیزوالکتریک یک سازه ساخته شده از مواد مدرج الکتریکی با استفاده از روش انرژی، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره 21 بهار 1390.

پس از دکتری

4. عارفی، تاثیر بستر ویسکو-پاسترناک بر ارتعاش ورق سه لایه با یک هسته مدرج و لایه های مدرج، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، پذیرفته شده برای چاپ.

ب- ISI Published Papers

Before PhD

شامل 13 مقاله

1. **Mohammad Arefi** · G. H. Rahimi, 2012, Three-dimensional multi-field equations of a functionally graded piezoelectric thick shell with variable thickness, curvature and arbitrary nonhomogeneity , **Acta Mechanica(IF=1.3)** 223, 63–79.
2. Rahimi, G.H., Alashti, R.A., **Arefi, M.**, Limit load of the panel with elliptical opening, *Shell Structures: Theory and Applications - Proceedings of the 9th SSTA Conference, 2010.*
3. **M. Arefi** and G.H. Rahimi, 2012, Studying the nonlinear behavior of the functionally graded annular plates with piezoelectric layers as a sensor and actuator under normal pressure, **Smart Structures and Systems(IF=1.3)**, Vol. 9, No. 2, 127-143.

4. **M. Arefi** , G.H. Rahimi and M.J. Khoshgoftar, 2012, Exact solution of a thick walled functionally graded piezoelectric cylinder under mechanical, thermal and electrical loads in the magnetic field, **Smart Structures and Systems(IF=1.3)**, Vol. 9, No. 5 , 427-439.
5. M J Khoshgoftar, A Ghorbanpour Arani and **M Arefi** , 2009, Thermoelastic analysis of a thick walled cylinder made of functionally graded piezoelectric material, **Smart Materials and Structures (IF=2.1)**. 18 (115007) (8pp).
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11. **M. Arefi** and G.H. Rahimi, 2011, Non linear analysis of a functionally graded square plate with two smart layers as sensor and actuator under normal pressure, **Smart Structures and Systems (IF=1.43)**, Vol. 8, No. 5, 433-448.
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20. Ali-Asghar Naderi, Gholam-Hossein Rahimi and **Mohammad Arefi**, Influence of fiber paths on buckling load of tailored conical shells, **Steel and Composite Structures (IF=0.95)**, Vol. 16, No. 4 , 375-387, 2014.
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 27. **M. Arefi**, I. Nahas, Nonlinear electro thermo elastic analysis of a thick spherical functionally graded piezoelectric shell, **Composite Structures (IF=3.12)**, Vol. 18c, pp.510-518, **2014**.
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 29. **M. Arefi**, Nonlinear electromechanical analysis of a functionally graded square plate integrated with smart layers resting on Winkler-Pasternak foundation under normal pressure, **Smart Structures and Systems (IF=1.43)**, Vol. 16, No. 1, pp. 195-211, 2015.
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پ- مقالات چاپ شده در مجلات علمی پژوهشی داخلی شامل 4 مقاله

45. عارفی، رحیمی و اکبری آلاشتی، آنالیز بار حد پنل با گشودگی دایروی، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره 18 پاییز 1388.
46. عارفی و رحیمی، آنالیز ترموالاستیک سیلندر جدار ضخیم FG تحت فشار با استفاده از تئوری برشی مرتبه اول، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره 20 پاییز 1389.
47. عارفی، رحیمی و خوشگفتار، فرمولبندی عمومی برای آنالیز ترمویزوالکتریک یک سازه ساخته شده از مواد مدرج الکتریکی با استفاده از روش انرژی، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، شماره 21 بهار 1390.
48. عارفی، تاثیر بستر ویسکو-پاسترناک بر ارتعاش ورق سه لایه با یک هسته مدرج و لایه های مدرج، مجله علمی پژوهشی انجمن مهندسان مکانیک ایران، پذیرفته شده برای چاپ.

ت- مقالات چاپ شده در کنفرانس های معتبر خارجی شامل 3 مقاله

49. M. J. Khoshgoftar, G. H. Rahimi, and M. Arefi, EXACT SOLUTION FOR A ROTATING CYLINDER MADE OF FUNCTIONALLY GRADED PIEZOELECTRIC MATERIALS, 16th International Conference on Composite Structures (ICCS 16), Porto, 2011.
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ث- مقالات چاپ شده در کنفرانس های معتبر داخلی شامل 6 مقاله

52. آنالیز بار حد پنل با گشودگی با استفاده از روش جبران الاستیک - شانزدهمین کنفرانس بین المللی مهندسی مکانیک - دانشگاه باهنر کرمان - 1387
53. آنالیز بار حد پنل با گشودگی با استفاده از روش تحلیلی - هفدهمین کنفرانس مهندسی مکانیک - دانشگاه تهران - 1388
54. آنالیز بار حد پنل های با گشودگی بیضوی و مستطیلی با استفاده از روش جبران الاستیک - هفدهمین کنفرانس بین المللی مهندسی مکانیک - دانشگاه تهران - 1388
55. آنالیز ترمو پیزو الکتریک سیلندر جدار ضخیم - هفدهمین کنفرانس بین المللی مهندسی مکانیک - دانشگاه تهران - 1388

56. آنالیز تحلیلی سیلندر جدار ضخیم ناهمگن پیزوالکتریک تحت بار مکانیکی، الکتریکی و حرارتی در میدان مغناطیسی -18 امین کنفرانس بین المللی مهندسی مکانیک - دانشگاه صنعتی شریف - 1389

57. حل دقیق استوانه جدار ضخیم ناهمگن پیزومغناطیس تحت بار مکانیکی و حرارتی -18 امین کنفرانس بین المللی مهندسی مکانیک - دانشگاه صنعتی شریف - 1389

عناوین علمی و پژوهشی

1. کسب عنوان 1% دانشمندان برتر دنیا
2. پژوهشگر نمونه دانشگاه کاشان در سال 1393
3. پژوهشگر برگزیده دانشگاه کاشان در سال 1396
4. پژوهشگر نمونه دانشگاه کاشان در سال 1398
5. دبیر تخصصی ژورنال *Advance in Mechanical Engineering*
6. داور ژورنال *Journal of Mechanical Science and Technology (Springer)*
7. داور ژورنال *Ain Shams Engineering Journal (Elsevier)*
8. داور ژورنال *International Journal of Pressure Vessel and Pippings (Elsevier)*
9. داور مجله مهندسی مکانیک مدرس
10. داور ژورنال *Latin American Journal of Solids and Structures*
11. داور مجله مکانیک سازه ها و شاره ها
12. داور مجله *Mechanics of Advanced Composite Structures*
13. نفر اول کنکور کارشناسی ارشد در دانشگاه کاشان
14. نفر 3 المپیاد دانشجویی سال 1385

زمینه های علاقمندی

مواد پیزوالکتریک
نانو و میکرو سازه ها
سازه های ساندویچی
تحلیل مخازن تحت فشار
تحلیل پوسته ها و ورقها
تحلیل سازه های ساندویچی
تحلیل سه بعدی در دستگاه مختصات منحنی الخط
تحلیل های غیر خطی
کاربرد روش انرژی جهت تحلیل مسایل

تحليل مواد مدرج

توانایی تدریس دروس

استاتیک
دینامیک
مقاومت مصالح 1 و 2
طراحی اجزا 1
مکانیک محیط های پیوسته
مقاومت مصالح پیشرفته
تئوری پوسته ها و ورقها

دروس تدریس شده

مقاومت مصالح 1
مقاومت مصالح 2
کارگاه عمومی
دینامیک
یاتاقان و روغنکاری
طراحی اجزا 1
مقاومت مصالح
مکانیک محیط های پیوسته

Scopus: H index: 32, Total Citations: 2214

Google Scholar: H Index: 35, I 10 Index: 75, Total Citations: 2621

Research gate: RG Score: 37.3

مراجع و مستندات

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